

In re application of
Gregory M. Fahy
Application No.: 09/916,032
Page 2 of 17

Atty. Dkt. No. 074066-0105
(21CM1100-2)

Amendments to the Specification:

Please amend the specification as follows:

Please replace paragraphs [0001] and [0002] with the following paragraph:

[0001] This Application is a Continuation in Part of U.S. Patent Application Ser. No. 09/771,221, filed January 26, 2001, now abandoned, which claims priority to U.S. Provisional Application No. 60/178,157, filed January 26, 2000.

Please add the following paragraph after [0044]

[0044a] A presently preferred vitrification solution for the prevention of cooling injury can be provided by adding polymers (e.g., antinucleating or other polymers) in concentrations that increase the tonicity of the medium to within the optimal range for inhibition of cooling injury. Anti-nucleating polymers may be selected from the group consisting of: polyglycerol, polyvinyl alcohol-polyvinyl acetate copolymer, and mixtures thereof. Other polymers contemplated for use herein include polyvinyl pyrrolidone or polyethylene glycol. Preferably, the polyethylene glycol has a mean molecular mass of 1000 daltons. Preferably the vitrification solution includes dimethyl sulfoxide, formamide, and ethylene glycol. In another preferred embodiment, the vitrification solution includes dimethyl sulfoxide, formamide, ethylene glycol, polyglycerol, and polyvinyl alcohol-polyvinyl acetate copolymer, wherein the combination of polyglycerol and polyvinyl alcohol-polyvinyl acetate copolymer is at a total concentration of 0.1 to 0.7 times isotonic. Optionally, the vitrification solution can include acetol.

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